

**FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPECIAL TEMPORARY AUTHORITY**

This request for Special Temporary Authority (STA) is for a Existing STA

Applicant Name

Name of Applicant: Kestrel Signal Processing, Inc.

Address

Attention: David Burgess
Street Address: 1652 West Texas St., Ste. 228
P.O. Box:
City: Fairfield
State: CA
Zip Code: 94533
Country: United States
E-Mail Address: dburgess@kestrelsp.com

Best Contact

Give the following information of person who can best handle inquiries pertaining to this application:

Last Name: Baliga
First Name: Roshan
Title: Mr.
Phone Number: 617-953-6563

Explanation

Please explain in the area below why an STA is necessary:

To be compatible with standard cellular subscriber equipment, we must test in a standard GSM band. To fully exercise the radio design, we must operate under realistic propagation conditions. If granted, this license supersedes and replaces our current STA, File Number 0538-EX-ST-2007.

Purpose of Operation

Please explain the purpose of operation: Testing the control and traffic transactions with specifically configured mobile stations. We are developing cellular network equipment and require an open-air test range. In typical tests, the experimental equipment will conduct control and traffic transactions with specifically configured mobile stations.

Information

Callsign: WD9XCV
Class of Station: FX
Nature of Service: Experimental

Location of proposed operation

Operation Start Date: 05/01/2008
Operation End Date: 11/01/2008

Manufacturer

List below transmitting equipment to be installed (if experimental, so state) if

additional rows are required, please submit equipment list as an exhibit:

| Manufacturer | Model Number | No. Of Units | Experimental |
|----------------|--------------|--------------|--------------|
| Range Networks | QC1 | 2 | No |

Certification

Neither the applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. The applicant hereby waives any claim to the use of any particular frequency or electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.) The applicant acknowledges that all statements made in this application and attached exhibits are considered material representations, and that all the exhibits part hereof and are incorporated herein as if set out in full in this application; undersigned certifies that all statements in this application are true, complete and correct to the best of his/her knowledge and belief and are made in good faith. Applicant certifies that construction of the station would NOT be an action which is likely to have a significant environmental effect. See the Commission's Rules, 47 CFR1.1301-1.1319.

Signature of Applicant (Authorized person filing form): Roshan Baliga
Title of Applicant (if any):
Date: 2008-03-20 00:00:00.0

Station Location

| City | State | Latitude | Longitude | Mobile | Radius of Operation |
|-------|------------|----------------|----------------|--------|---------------------|
| Dixon | California | North 38 19 47 | West 121 47 13 | | 20.00 |

Datum: NAD 83

Is a directional antenna (other than radar) used? No

Exhibit submitted: No

(a) Width of beam in degrees at the half-power point:

(b) Orientation in horizontal plane:

(c) Orientation in vertical plane:

Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? Yes

(a) Overall height above ground to tip of antenna in meters: 20.00

(b) Elevation of ground at antenna site above mean sea level in meters: 10.00

(c) Distance to nearest aircraft landing area in kilometers: 6.90

(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft: None.

| Action | Frequency | Station Class | Output Power/ERP | Mean Peak | Frequency Tolerance (+/-) | Emission Designator | Modulating Signal |
|--------|-------------------------------|---------------|----------------------------|-----------|---------------------------|---------------------|----------------------|
| New | 925.00000000-928.00000000 MHz | FX | 10.000000 W 40.000000 W | P | | 270KGXW | GSM Mobile Telephony |

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